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5-8-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Hiroomi HANAI) Group Art Unit Unknown
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 Appl. No. : Unknown)
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 Filed : Herewith)
)
 For : MANUFACTURING METHOD)
 OF CERAMIC GREEN SHEET,)
 MANUFACTURING METHOD)
 OF MULTILAYER CERAMIC)
 ELECTRONIC)
 COMPONENTS, AND)
 CARRIER SHEET FOR)
 CERAMIC GREEN SHEETS)
)
 Examiner : Unknown)

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
 Washington, D.C. 20231

Dear Sir:

Preliminary to examination on the merits, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 12, line 6, with the following rewritten paragraph:

-- Figure 4 (a) and Figure 4 (b) show a sectional view of the ceramic green sheet laminated body in which a ceramic green sheet and a carrier sheet are manufactured separately; and --

[Please replace the paragraph beginning at page 12, line 9, with the following rewritten paragraph:]

-- Figure 5 (a) to Figure 5 (c) show a sectional view of the ceramic green sheet laminated body in which a ceramic green sheet and a carrier sheet are manufactured separately.

Please replace the paragraph beginning at page 23, line 22, with the following rewritten paragraph:

A2 --As shown in Figure 4 (a), Figure 4 (b) or Figure 5 (a) to Figure 5 (c), the ceramic green sheet 2 formed on the carrier sheet 1 shown in Figure 3 is laminated onto other ceramic green sheets, and a ceramic green sheet laminated body is formed. Then, the carrier sheet 1 is separated from the ceramic green sheet 2 after heat-treatment or UV irradiation processing. Convenient equipments may be used for heating or UV irradiation. --

Please replace the paragraph beginning at page 24, line 19, with the following rewritten paragraph:

A3 --Moreover, a method may be mentioned in which the ceramic green sheet 2 is piled up on the ceramic green sheet 3 as a substrate and subsequently the laminated body is adhered by pressure and heat (further irradiated with UV), and thereby the carrier sheet 1 is separated while the ceramic green sheet 2 is transferred and laminated, as shown in Figure 5 (b) and Figure 5 (c). Then, this operation is repeated successively; electrode patterns are located with sufficient accuracy, further repeatedly adhered by pressure and heat, and thus the ceramic green sheets 2 are laminated. Although conditions of adhering by pressure and heat are not especially limited, conditions of about 20 to 50 degrees C and 1×10^5 to 1×10^8 Pa are usually adopted. --

IN THE CLAIMS:

Please amend claims 3-6, 8 and 9 as follows:

A4 3. (Amended) The manufacturing method of the ceramic green sheet according to Claim 1, wherein the adhesive layer separable by being heated comprises thermal expandable fine particles.

4. (Amended) The manufacturing method of the ceramic green sheet according to Claim 1, wherein a dynamic modulus of elastic of an adhesive forming the adhesive layer separable by being heated is in a range of 5×10^3 to 1×10^6 Pa at a temperature of 23 degrees C to 150 degrees C.

5. (Amended) The manufacturing method of the ceramic green sheet according to Claim 1, wherein the adhesive layer separable by being heated comprises a side chain crystalline resin.

6. (Amended) The manufacturing method of the ceramic green sheet according to Claim 1, wherein an adhesive strength to stainless steel of the adhesive layer separable by being heated